TEJUS
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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike
Project:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants:	TEJUS CONSULTANTS
Contractor:	M/S Sri R Ramshankar.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material:	12.5 mm down size	Proposed Use	CONCRETE	
Sample Location:	At Site/Plant	Date of Sampling	15.11.2018	
		Date of Testing	15.11.2018	

Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	650	650	6.50	93.50	90-100
10.0	4675	5325	53.25	46.75	40-85
4.75	4520	9845	98.45	1.55	0-10
Pan	155	10000			

Remarks: ✓ Satisfactory / Not Satisfactory

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TEJUS CONSULTANTS

Authorised Signatory

1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/S Sri R Ramshankar.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	15.11.2018	22.11.2018	7 days	8.135	22500	298	13.24	13.19
2	15.11.2018	22.11.2018	7 days	8.140	22500	297	13.20	
3	15.11.2018	22.11.2018	7 days	8.145	22500	295	13.11	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/S Sri R Ramshankar.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	15.11.2018	13.12.2018	28 days	8.135	22500	455	20.22	20.28
2	15.11.2018	13.12.2018	28 days	8.140	22500	456	20.27	
3	15.11.2018	13.12.2018	28 days	8.142	22500	458	20.36	

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Test Report on Cement

Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Sri R Ramshankar
Sample ID	Cement
Date of Sample Tested	01.12.2018
Sample Submitted By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	349 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	2mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Sri R Ramshankar

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	10.12.2018
		Date of Testing	10.12.2018

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
4.75 mm	0	0	0	100.00	100
2.36 mm	225	225	7.50	92.50	90 - 100
1.18 mm	312	537	17.90	82.10	75 - 100
600 mm	425	962	32.07	67.93	55 - 90
300 mm	496	1458	48.60	51.40	35 -59
150 mm	720	2178	72.60	27.40	8-30
75 mm	635	2813	93.77	6.23	0 - 10
Pan	187	3000			-

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Client:	Bruhath Bangalore Mahanagara Palike
Project:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Sri R Ramshankar
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC
Sample Location	At Site/Plant	**Date of Sampling**	01.12.2018
		Date of Testing	01.12.2018

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
40.00mm	0	0	0.00	100.00	100
20.00mm	0	0	0.00	100.00	-
10.00mm	110	110	3.67	96.33	95-100
4.75mm	1322	1432	47.73	52.27	30-70
2.36mm	982	2414	80.47	19.53	10-35
600µm	462	2876	95.87	4.13	0-5
Pan	124	3000	100.00	0.00	

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

	BRUHAT BENGALORE MAHANAGARA PALIKE
	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
	M/S Sri R Ramshankar.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
	At Site/Plant	**Date of Sampling**	05.12.2018
	24 hours	**Date of Testing**	05.12.2018

Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
Weight of sturated surface dry sample gm.		652	668	672	
Weight of oven - dry sample gm.		640	658	662	
Weight of Pycnometer Filled with water gm		1275	1275	1275	
Weight of Pycnometer + sample + water gm		1686	1698	1698	
Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.656	2.686	2.659	**2.667**
Absorption (%)	$\frac{(A-B)*100}{B}$	1.875	1.520	1.511	**1.635**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Sri R Ramshankar.

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
Sample Location	At Site/Plant	Date of Sampling	05.12.2018
		Date of Testing	05.12.2018

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	320	530	17.67	82.33	75 - 100
1.18 mm	405	935	31.17	68.83	55 - 90
600 mm	462	1397	46.57	53.43	35 -59
300 mm	782	2179	72.63	27.37	8-30
150 mm	650	2829	94.30	5.70	0 - 10
Pan	171	3000			- -

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT

Client	Bruhat Bangalore Mahanagara Palike
Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Sri R Ramshankar.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	20 mm down size	**Proposed Use**	Concrete
Sample Location	Plant/At site	**Date of Sampling**	05.12.2018
		Date of Testing	05.12.2018

Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	310	310	3.10	96.90	95 - 100
10.00 mm	4810	5120	51.20	48.80	25 - 55
4.75 mm	4252	9372	93.72	6.28	0 - 10
Pan	628	10000			

Remarks: ✓ Satisfactory / Not Satisfactory

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TEST REPORT

Client:	Bruhat Bangalore Mahanagara Palike
Project:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	TEJUS CONSULTANTS
Contractor	M/S Sri R Ramshankar.
Total Weight:	10000 gms

SIEVE ANALYSIS

Type of Material	12.5 mm down size	Proposed Use	CONCRETE
Sample Location	At Site/Plant	Date of Sampling	05.12.2018
		Date of Testing	05.12.2018

IS Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	548	548	5.48	94.52	90-100
10.0	4682	5230	52.30	47.70	40-85
4.75	4562	9792	97.92	2.08	0-10
Pan	208	10000			

Remarks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project:	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Client:	Bruhat Bangalore Mahanagar Palike
Consultant:	TEJUS CONSULTANTS
Contractor:	M/S Sri R Ramshankar.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	05.12.2018	12.12.2018	7 days	8.125	22500	296	13.16	13.16
2	05.12.2018	12.12.2018	7 days	8.130	22500	297	13.20	
3	05.12.2018	12.12.2018	7 days	8.135	22500	295	13.11	

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Test Report on Cement

Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05 Byatarayanapura Sub division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	M/S Sri R Ramshankar
Sample ID	Cement
Date of Sample Tested	10.12.2018
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	38 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	335 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	2mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT

Client	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/S Sri R Ramshankar

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Sample/Material	Fine aggregate (River Sand/ M sand)	Proposed Use	PCC
Location/Source	At Site/Plant	Date of Sampling	10.12.2018
Period of Soaking	24 hours	Date of Testing	10.12.2018

Sl No	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
(A)	Weight of sturated surface dry sample gm.		666	672	673	
(B)	Weight of oven - dry sample gm.		656	662	663	
(C)	Weight of Pycnometer Filled with water gm		1275	1275	1275	
(D)	Weight of Pycnometer + sample + water gm		1695	1698	1699	
(E)	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.667	2.659	2.663	2.663
(F)	Absorption (%)	$\frac{(A-B)*100}{B}$	1.524	1.511	1.508	1.514

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TEST REPORT

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	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
	M/S Sri R Ramshankar

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

	Fine aggregate (River Sand/ M sand)	**Proposed Use**	PCC
	At Site/Plant	**Date of Sampling**	10.12.2018
	24 hours	**Date of Testing**	10.12.2018

Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
Weight of sturated surface dry sample gm.		658	655	659	
Weight of oven - dry sample gm.		648	645	648	
Weight of Pycnometer Filled with water gm		1275	1275	1275	
Weight of Pycnometer + sample + water gm		1688	1692	1690	
Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.645	2.710	2.656	**2.670**
Absorption (%)	$\frac{(A-B)*100}{B}$	1.543	1.550	1.698	**1.597**

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TEST REPORT

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Project	Package-10.1. Construction of anganawadi building at kogilu in ward no05 bytarayanapura sub division, 2.Improvements of roads and drains at Ward No.05 to Ward No.06 and 07 connecting roads in Ward No.05 Byatarayanapura Sub Division. 3.Improvements to Roads and Drains at Telecom Layout Cross Roads in Ward No 05 Byatarayanapura Sub division, 4.Improvements to Roads and Drains at Shivaramakaranthanagara 1st stage cross roads in Ward No 05
Consultants	Tejus Consultants, Bangalore
Contractor	M/S Sri R Ramshankar

SIEVE ANALYSIS

Test Weight:	3000 gms			
Type of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete	
Sample Location	At Site/Plant	Date of Sampling	10.12.2018	
		Date of Testing	10.12.2018	

Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
4.75mm	0	0	0	100.00	100
2.36mm	200	200	6.67	93.33	90 - 100
1.18mm	318	518	17.27	82.73	75 - 100
600 µm	422	940	31.33	68.67	55 - 90
300 µm	494	1434	47.80	52.20	35 -59
150 µm	710	2144	71.47	28.53	8-30
Pan	642	2786	92.87	7.13	0 - 10
Loss	214	3000			-
					-

Remarks: ✓ Satisfactory / Not Satisfactory

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